	Application No.	Applicant(s)
Notice of Allowability	10/686,551	LOKOVIC ET AL.
	Examiner	Art Unit
	Kimbinh T. Nguyen	2671
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet with (OR REMAINS) CLOSED in a or other appropriate commur GHTS. This application is su and MPEP 1308.	this application. If not included nication will be mailed in due course. THIS
<u> </u>	<u>0/05</u> .	
2. The allowed claim(s) is/are <u>16-81</u> .		
3. The drawings filed on 14 October 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the certified copies of the priority documents have The priority documents have The priority documents have Certified copies of the priority documents have The priority documents have<td>been received. been received in Application cuments have been received of this communication to file a</td><td>No in this national stage application from the</td>	been received. been received in Application cuments have been received of this communication to file a	No in this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
 hereto or 2) ☐ to Paper No./Mail Date including changes required by the attached Examiner's Paper No./Mail Date 	Amendment / Comment or in	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Reports of the comment regarding reports of the comment regard		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/06) Paper No./Mail Date	6. ☐ Interview Sur Paper No./M	rmal Patent Application (PTO-152) nmary (PTO-413), lail Date mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's S 9. ☐ Other	tatement of Reasons for Allowance

DETAILED ACTION

1. This action is responsive to amendment filed 08/10/05.

2. Claims 16-81 are pending in the application.

Allowable Subject Matter

3. Claims 16-81 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 16-81, the prior art does not teach generating a shadow map, comprising: receiving information associated with a first light source; generating at least a first ray and a second ray from the first light source; determining a first ray transmittance function associated with the first ray; determining a second ray transmittance function associated with the second ray; processing information associated with the first ray transmittance function and the second ray transmittance function; determining a first visibility function based on at least information associated with the first ray transmittance function and the second ray transmittance function; wherein the determining a first ray transmittance function includes: processing information associated with the first ray; determining at least a first surface (geometric) transmittance function based on at least information associated with the first ray; determining at least a first volume (geometric) transmittance function based on at least information associated with the first ray; processing information associated with the first surface (geometric) transmittance function and the first volume transmittance function; determining the first ray transmittance function based on at least information associated with the first surface transmittance function and the first volume transmittance function;

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wherein the first visibility function is capable of being equal to any value smaller than or equal to a first value and larger than or equal to a second value, the first value associated with being fully lit by the first light source, and the second value associated with being completely unlit by the first light source.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimbinh T. Nguyen whose telephone number is (571) 272-7644. The examiner can normally be reached on Monday to Thursday from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Friday from 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached at (571) 272-7782. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 16, 2005

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KIMBINH T. NGUYEN PRIMARY EXAMINER